

## Wyandotte County

### Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

6/30/2017

Using the most recent IMPLAN data available (2015) adjusted for 2017, 33 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Wyandotte County economy.<sup>1</sup>

These 33 sectors have a total direct output of approximately **\$1.25 billion** and support **3,062.8 jobs** in Wyandotte County. Running the model for all 33 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Wyandotte County Economy						
Impact Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>	Output % of Gross Regional Product
Direct Effect	3,062.8	2.82%	\$289,527,123	2.73%	\$1,249,526,889	11.79%
Indirect Effect	1,452.1	1.34%	\$143,439,781	1.35%	\$262,344,529	2.48%
Induced Effect	660.9	0.61%	\$53,887,815	0.51%	\$90,896,145	0.86%
<b>Total Effect</b>	<b>5,175.9</b>	<b>4.76%</b>	<b>\$486,854,720</b>	<b>4.59%</b>	<b>\$1,602,767,563</b>	<b>15.12%</b>

As shown in the above table, agriculture, food, and food processing sectors support **5,175.9 jobs**, or **4.76%** of the entire workforce in the county. These sectors provide a total economic contribution of approximately **\$1.60 billion**, roughly **15.12% of the economy**.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 33 agriculture, food, and food processing sectors is approximately **\$486.9 million**, or **4.59% of the GRP**. This indicates that personal income, business income, and taxes generated by these sectors account for **4.59% of the total economy**.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting:

[http://www.implan.com/index.php?option=com\\_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70](http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70)

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

<sup>3</sup> Value added = labor income + indirect business taxes + other property type income.

<sup>4</sup> GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

<sup>5</sup> Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the landscape and horticultural services sector is the top employer with **745.5 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Wyandotte County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Landscape and horticultural services	745.5	\$45,718,595
Bread and bakery product, except frozen, manufacturing	483.9	\$69,584,693
Meat processed from carcasses	456.4	\$248,112,538
Wholesale trade	418.7	\$88,889,735
Cookie and cracker manufacturing	329.5	\$122,730,651
Truck transportation	220.7	\$39,737,984
Dry pasta, mixes, and dough manufacturing	200.5	\$143,608,199
Rendering and meat byproduct processing	114.4	\$66,071,481
Management of companies and enterprises	100.3	\$21,668,757
Other animal food manufacturing	94.8	\$131,512,972

The meat processed from carcasses sector directly contributes approximately **\$248.1 million** to the Wyandotte County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Meat processed from carcasses	456.4	\$248,112,538
Dry pasta, mixes, and dough manufacturing	200.5	\$143,608,199
Other animal food manufacturing	94.8	\$131,512,972
Cookie and cracker manufacturing	329.5	\$122,730,651
Pesticide and other agricultural chemical manufacturing	66.5	\$101,996,987
Wholesale trade	418.7	\$88,889,735
Bread and bakery product, except frozen, manufacturing	483.9	\$69,584,693
Rendering and meat byproduct processing	114.4	\$66,071,481
Flour milling	42.4	\$62,743,260
Fats and oils refining and blending	29.1	\$57,731,553

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Wyandotte County economy.

<b>All Agriculture, Food, and Food Processing Sectors</b>		
<b>Sector</b>	<b>Total Employment</b>	<b>Total Output</b>
Oilseed farming	4.1	\$1,197,909.24
Grain farming	8.9	\$887,018.08
Vegetable and melon farming	1.1	\$197,256.65
Fruit farming	1.6	\$143,151.78
Tree nut farming	0.0	\$47.11
Greenhouse, nursery, and floriculture production	10.8	\$2,111,941.81
All other crop farming	12.8	\$260,388.46
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	50.9	\$1,548,912.05
Poultry and egg production	0.6	\$297,049.76
Animal production, except cattle and poultry and eggs	34.4	\$1,377,691.51
Dog and cat food manufacturing	34.2	\$46,818,641.66
Other animal food manufacturing	94.8	\$131,512,969.97
Flour milling	42.4	\$62,743,263.24
Fats and oils refining and blending	29.1	\$57,731,555.94
Frozen fruits, juices and vegetables manufacturing	49.7	\$23,065,881.73
Canned fruits and vegetables manufacturing	29.7	\$14,234,453.20
Meat processed from carcasses	456.4	\$248,112,533.57
Rendering and meat byproduct processing	114.4	\$66,071,479.80
Bread and bakery product, except frozen, manufacturing	483.9	\$69,584,693.91
Frozen cakes and other pastries manufacturing	4.6	\$717,649.22
Cookie and cracker manufacturing	329.5	\$122,730,651.86
Dry pasta, mixes, and dough manufacturing	200.5	\$143,608,200.07
Tortilla manufacturing	6.1	\$1,227,750.66
Bottled and canned soft drinks & water	40.1	\$30,337,678.91
Wineries	9.2	\$2,332,723.86
Sawmills	9.7	\$2,582,213.16
Nitrogenous fertilizer manufacturing	5.6	\$16,236,234.66
Pesticide and other agricultural chemical manufacturing	66.5	\$101,996,986.39
Farm machinery and equipment manufacturing	34.2	\$19,170,761.11
Food product machinery manufacturing	67.1	\$21,164,018.63
All other industrial machinery manufacturing	34.2	\$8,957,691.19
Veterinary services	50.3	\$4,848,897.93
Landscape and horticultural services	745.5	\$45,718,593.60

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Wyandotte County, the retail sector was omitted.